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REGIONAL FLOW ANALYSIS FOR THE VALLE DEL CAUCA

REGION IN COLOMBIA

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ABSTRACT. Flow frequency analysis of high and low flows is carry out by using the regional Probability Weighted Moments (PWM) algorithm. The distributions fitted to the region are: General extreme value (GEV), Wakeby, Extreme value type 1 (EV1) or Gumbel and Weibull (two or three parameters) distributions. In order to select the distribution appropite for each series four test of goodness of fit were carry out, manely, chi square, 'DMAX' goodness of fit, probability plot criteria and a graphical test base on montecarlo simulation. The selection of the distribution is made to depend on the performance of the distributions under tests over all test. The distributions selected for annual maximum flow series is the EV1 distribution while the GEV distribution is selected for the annual minimum flow series.

INTRODUCTION

General information

Colombia is located on the Equator in the North-west corner of South America, approximately between 4° 15 ' South latitude and 12° 20 ' North latitude and between

66° 50 ' and 79° 2 ' West longitude.

The Cauca river is the main river drainage basin of the study region, which from an economic point of view is the second most important river in the country. It raises in the Andes mountain range of Southern Colombia and flows Northwards into the Atlantic Ocean. The study region is crossed from South to North by the Western mountain range, with a mean altitude of 2000 m above msl. This mountain range divides the water which drains to the Pacific ocean, and that which drains Eastwards to the Cauca river at 950m above mls approximately. Parallel to that range and to the East of it is the Central mountain range with a mean altitude of 3000m above msl approximately, which separate the catchments of Cauca and Magdalena rivers.

The climate of the region is classified as tropical due to its geographical position. This type of climate is characterized by its temperature whose average variation is not greater than 5° C. However, the climate is strongly influenced by the orography of the region which affects the mean temperature according to altitude above mean sea level. Another factor which affects the climate together with the orography the atmospheric circulation in the form of winds, of the air that is present in the valley region.

From the monthly maps of area distribution of rainfall obtained from González D. (1984), it is observed that there are two periods of drought and two of rainfall each year. The drought periods are from January to March and from June to August, while the rainfall periods are in April and May and September to December. It is important to remark that despite the generally similar patterns of all maps, there exists significant variation between the different stations in regard to the distribution of rainfall during the year, reflecting climatic variations in the region.

Stations selected

Table 1 shows the names of the hydrometric stations situated on the Cauca River and its tributaries which were selected for the study. Table 2 shows the period for which records were available. Table 2 shows that records were kept from most of the tributaries of the Cauca River, from 1973 up to 1984. However, most of the stations

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	Homemo	Canada	76.20	3.18	13	Valle	956	8018	d.s.r	X-1961
	limentatio	Canton	78.29	3.27	Candalaria	Vate	846	8673	C.S.I	1-1934
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3	Pla Talada	Deto	76.26	3.14	Plo. Teleda	Centon	966	1656	C.G.T	IX-1964
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Table 1. Name and Location of the hydrometric stations

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on the Cauca River have a longer recording period. As 1985 started to run the Salvajina dam which affects all the measurements downstream of the Cauca River It was chosen a concurrent period of ten years from 1973 to 1982, being the longest period for which reliable concurrent information data are available. Given the effect of Salvajina dam on the floods and low flows of the Cauca River stations, the regional results obtained will be useful for application in the tributaries of the Cauca river.

Figure 1 illustrates the hydrometric stations in the region and the measurement instruments used. The instruments used are discrete and continuous stage recording.

Compilation of data

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The series of extremes data were obtained from the Regional Corporation of Cauca River (C.V.C.). The annual maximum (Am) flow series is solely due to rainfall as in this region snowmelt is virtually absent.

The soil permeability varies significantly with the variation of soil types. For instance, it is known from direct observation that the soil type varies from clay to sand and in some places to stony strata. This variation is not only between catchments but also it is common to find this variation within the same catchment. It has undoubtedly a big influence on the catchment response to the rainfall input and hence on the characteristics of the series. However, the available geological information is still scattered and requires a further effort to assemble it into a more useful form that can be incorporated into a hydrological study.

In addition, the information on precipitation in the region, is presented in a general form to cover the whole region, averaging the rainfall patterns in the area which cannot be easily associated with any of the components catchments.



The minimum annual flows occurs between August and October. This can be explained by the fact that rivers are in recession since the beginning of the preceding dry period in June and because the period from September to October is usually too small to reserve these recession.

Tables 3 and 4 show the annual maximum and minimum flow series for equal concurrent lengths of record, for the thirty stations selected.

Preliminary Analyses

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Basic statistics of the region, such as coefficients of variation and skewness and the variations on them, were compared with those of other regions for which studies have been produced, e.g. those carry out by Hosking et al.,(1985a), King (1985) and Wallis and Wood (1985). The statistics showed a region more heterogeneous in the annual maximum flow series and in the minimum flow series.

Tests of randomness of the data

In flood frequency the basic objective is the analysis of outcomes of real observations considered as a random sample. For this analysis, mathematical models are considered as the most condensed manner of expressing the information about random variables. The element of randomness is essential to the development of a statistical argument; in fact, it is the element that allows delineation of a population or collective from a description of which we can make probabilistic conclusions. Since hydrological situations can never be very well described, the question of independence, as that of randomness, is always problematical.

In order to check randomness to validate the use of the statistical inferences pro-

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27,30 27,30 27,30 27,30 27,30 27,30 27,30 27,30 27,30 27,30 27,30 27,30 27,30 27,30 27,30 27,30 27,30 27,30 27,30 27,30 27,30 27,30 27,50 90 23,50 90 23,50 90 23,50 90 23,50 90 23,50 90 23,50 90 23,50 90 23,50 90 23,50 90 23,50 90 23,50 90 23,50 90
815.00	861,00	763,00	961,00	950,00	1028,00	991,00	1033,00	1244,00		1324,00	1324,00	1324,00 1276,00 71,20	1324,00 1276,00 71,20 26,51	1324,00 1276,00 71,20 26,51 36,90	1324,00 1276,00 71,20 26,51 36,90 79,90	1324,00 1276,00 71,20 26,51 36,90 79,90 52,20	1324,00 1276,00 71,20 26,51 36,90 79,90 52,20 107,70	1324,00 1276,00 71,20 26,51 36,90 79,90 52,20 107,70 122,89	1324,00 1276,00 71,20 26,51 36,90 79,90 52,20 107,70 107,70 55,70	1324,00 1276,00 71,20 26,51 36,90 79,90 52,20 107,70 1127,70 55,70 55,70 55,70 55,70 55,70 55,70	1324,00 1276,00 71,20 36,51 36,50 36,50 79,90 52,20 107,70 107,70 52,20 55,20 55,20 55,20 55,20 55,70 55,70 57,70 717,00 717,00	1324,00 1276,00 71,20 71,20 76,51 36,56 79,90 52,20 107,70 107,70 122,89 55,70 25,70 25,70 717,00 717,00 717,00	1324,00 1276,00 71,20 71,20 78,90 78,90 52,20 107,70 122,88 55,70 55,70 55,70 717,00 717,00 717,00 712,88 42,95	1324,00 1276,00 71,20 26,51 36,90 79,90 52,70 55,70 55,70 717,00 717,00 718,90 55,70 55,70 55,70 55,70 55,70 55,70 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Nombre Estación Salvalina	La Balsa	La Bolsa	Hormigero	Juanchito	Pto. Isaacs	Media Canoe	Rio Frio	Guavabal		a victoria	Ancaro	Ancaro La Luisa	La victoria Ancaro La Luisa Ortigal	La victoria Ancairo La Luísa Ortigal Buchitolo	La victoria Ancaro La Luisa Ortigal Buchitolo El Vergel	La victoria Ancaro Critigal Buchitolo El Vergel Los Bueves	La victoria Ancaro La Luisa Ortigal Buchitolo El Vergel Los Bueyes Potreño	La victoria Ancarto La Luita Ortigal Buchitolo El Vergei Los Bueves Potrerio	La victoria Ancaro La Luisa Ortigal Buchtiolo El Vergel Los Bueves Los Bueves Caspresa Caspresa	La victoria Ancaro La Luisa Ortigal Buchteolo El Vergel Los Bueyes Labro Cabito Lormiasa	La victoria Ancaro La Luisa Ortigal Buchtiolo El Vergel Los Bueyres Los Bueyres La Sorpresa Cabito Caloto Caloto Caloto Caloto	La victoria Ancaro La Luisa Ortigal Buchtiolo El Vergel Los Bueyres Potrerito La Sorpresa Cattedoria Cattedoria	La victoria Ancaro La Luisa Ortigal Buchtiolo El Vergel Los Bueyes Potrerão Las Sorpresa Calcedonia Catrago Madia Canoa	La victoria Ancario La Luista 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Table 3. Annual Maximum Flow Series

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1 Salvajána Caucal 34,00 2 La Balea Caucal 34,00 3 La Balea Caucal 51,00 5 Juanchiko Caucal 51,00 6 Poluanchiko Caucal 51,00 7 Modia Cances Caucal 67,00 8 Rib Frito Caucal 67,00 10 La Victoria Caucal 67,00 11 Ancaro Caucal 67,00 12 La Luisa Caucal 74,00 13 Cusyubal Caucal 74,00 14 Buchkicki Caucal 75,00 15 La Luisa Caucal 75,00 16 Los Buayes Gaucal 1,50 17 Potraetici La Rushika 0,30 18 La Custoria La Rushika 0,30 19 Castoria La Rushika 0,30 22 Catagoi La Rushika 0,50 23 Sittedia Cance La Rushika 0,50 24 Londatiscan La Rushika 0,50 23 Catagoi La Quebrais 0,50 23 Catagoi La Quebrais 1,500	QN .	mbre Estación	80 No	1973	1974	1975	1976	1877	1978	1979	1960	1981	1962
2 La Balea Cauca 47,00 3 La Bolea Cauca 51,00 5 Juanchiko Cauca 51,00 6 Fo. tasses Cauca 51,00 7 Modio Ennos Cauca 67,00 8 Rio Frito Cauca 67,00 9 Cuaryabal Cauca 67,00 10 La Victoria Cauca 67,00 11 Ancario Cauca 67,00 12 La Luisa Cauca 74,00 13 Guaryabal Cauca 74,00 14 El Victoria Cauca 75,00 15 Unitian Cauca 75,00 16 Los Buayes Guardaligner 0,70 17 Potraetto La Guedenigner 0,70 18 La Guedenigner 1,50 20 Loneitan La Rudinigner 0,70 21 Las Bucktoria La Guedenigner 0,70 22 Cathorea La Teta 0,50 23 Sama Lia Teta 0,50 24 Loneitan 1,60 25 Antalio 0,50 26 Floreadonia La Viener <td></td> <td>Salvaline</td> <td>Cauca</td> <td>34,00</td> <td>46,00</td> <td>72,00</td> <td>26,00</td> <td>30,00</td> <td>34,00</td> <td>34,00</td> <td>27,00</td> <td>40,00</td> <td>43,00</td>		Salvaline	Cauca	34,00	46,00	72,00	26,00	30,00	34,00	34,00	27,00	40,00	43,00
3 La Boia Cauca 51,00 5 Juanchito Cauca 51,00 6 Rto. Isaacs Cauca 57,00 7 Media Canoia Cauca 57,00 8 Rob File Cauca 57,00 9 Causabeli Cauca 57,00 10 La Wictoria Cauca 57,00 11 Ancaro Cauca 74,00 12 Ualitia Cauca 74,00 13 Ortgan Cauca 74,00 14 Buchtoia Cauca 74,00 15 La Uktoria Cauca 74,00 16 Lus Buchtois Cauca 75,00 17 Purnerto Cauca 74,00 18 El Vergel Cauca 74,00 17 Purnerto La Guerague 1,50 18 Los Bueyes Guerague 1,50 21 La Sorpresa La Veisia 0,50 22 Cartago La Veisia 0,50 23 Media Canoia La Veisia 0,50 23 Cartago La Veisia 0,50 23 Cartago La Veisia 0,50 2	$\left \right $	La Balsa	Cauca	47.00	82,00	96,00	40,00	46,00	44,00	35,00	40,00	50,00	64,00
4 Hormigero Nuestrolis Cauca E S3,00 5 Juanchiko Cauca E S9,00 6 Pto. Iaaacs Cauca E S9,00 9 Rio Frito Cauca E S9,00 10 La Vargalei Cauca E S9,00 11 Ancano Cauca E S9,00 12 La Vargalei Cauca E S9,00 13 Ustoria Cauca E S9,00 14 Buchitolo Cauca Cauca 74,00 15 La Lutsa Cauca 74,00 16 Lustoria Cauca 74,00 17 Orugai Cauca 74,00 18 Lustoria Cauca 1,00 19 Catagoi La Guebinglar 0,30 20 LoneBues La Guebinglar 0,30 21 Domites La Guebingla 0,30 22 Cartago La Guebingla 0,30 23 Modela Morea 0,30 24 Canca La Guebingla 0,30 23 Sartal Lacana La Guebingla 0,30 23 Sartal Lacana 0,30 0,30 26 Pto. Tejada Pali	╞	La Boles	Cauca	51.00	71.00	125.00	49,00	52,00	53,00	61,00	44,00	66,00	67,00
5 Juenchitio Cauca 59,00 7 Modia Cances Cauca 67,00 8 Rib Frio Cauca 67,00 9 Garynbal Cauca 67,00 10 La Wetoria Cauca 67,00 9 Garynbal Cauca 67,00 11 Ancao Cauca 60,00 12 La Vetoria Cauca 74,00 13 Cauca 74,00 74,00 13 Cauca 74,00 74,00 14 Buchtolo Cauca 75,00 14 Buchtolo Cauca 75,00 15 La Ulsia Cauca 7,00 16 Lus Busyes Cauca 1,50 17 Poundual 1,50 0,30 16 La Sonpresa La Puella 0,30 17 Poundual La Sonpresa 1,50 21 Poundual La Puella 0,30 22 <	╞	Horminero	Cauca	23.00	86.00	141,00	55,00	57,00	00'00	74,00	00'00	79,00	81,00
6 Pto. Issaers Cauca 67,00 7 Macdia Canoua Cauca 67,00 8 Rib Fino Cauca 67,00 9 Guayabai Cauca 67,00 10 La Nctoria Cauca 69,00 11 Anctao Cauca 74,00 11 Anctoria Cauca 74,00 11 Ancetoria Cauca 74,00 11 Ancetoria Cauca 74,00 12 La Nctoria Cauca 74,00 13 Ortigat Destauratio 0,70 14 Buchtolo Fraile 0,30 15 El Vergel Guadatalara 0,70 16 Lore Buayres La Ausoina 0,30 17 Potretio La Ausoina 1,50 20 Lore Buayres La Ausoina 0,50 21 Catagoo La Ausoina 0,50 22 Catagoo La Ausoina 0,50	+	Junchito	Cauca	00.00	91,00	148,00	20,00	61,00	71,00	20'22	59,00	79,00	81,00
7 Media Cance Cauca 67,00 8 Rio Frio Cauca 69,00 9 Gasyabal Cauca 69,00 10 La Victoria Cauca 74,00 11 Ancaro Cauca 74,00 12 La Unctoria Cauca 75,00 13 La Victoria Cauca 75,00 14 Buchtoio Cauca 75,00 15 La Unchaio Cauca 75,00 16 Los Busyes Cauca 0,70 16 Los Busyes Cauca 1,50 17 Potraetto La Patis 0,30 18 La Sopresa La Patis 0,30 20 Lombaria La Patis 0,30 21 Catago La Vieja 1,50 22 Catago La Vieja 0,30 23 Madia Cance La Vieja 0,30 23 Catago La Leta 0,30 2		Pto. Issued	Ceuca	87.00	90,16	156.00	66,00	82,00	73,00	00'62	61,00	84,00	83,00
8 Rio Frito Causyabal Causyabal Causyabal 74,00 1 10 La Victoria Causyabal Causyabal 74,00 1 11 Ancaro Causyabal Causyabal 74,00 1 11 Ancaro Causyabal Causoa 75,00 1 12 Utulsia Caucoa 75,00 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		Aedia Cance	Cauca	87,00	104,00	195,00	71,00	71,00	77,00	91,00	00'09	83,00	86,00
9 Guaryabal Cauca 74,00 1 10 La Victoria Cauca 74,00 1 11 Ancaro Cauca 74,00 1 12 La Lutisa Cauca 75,00 1 13 Ortgei Faule Cauca 75,00 1 14 Buchtoio Cauca 75,00 1 0,70 0,70 13 Ortgei Faule Cauca 75,00 1 0,20 1 0,00 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-	Rio Frio	Ceuca	00,00	138,00	218,00	76,00	23,00	90'08	106,00	74,00	107,00	00'00
10 La Victoria Cauca 74,00 11 Ancaro Cauca 75,00 12 La Luisa Cauca 75,00 13 Origgii Descenaraatio 0,02 14 Bucchitoio Canco 0,30 15 E Uvergei Garo 0,30 16 Les Elvergei Guadatalene 0,30 17 Potrento Jamandi 1,50 18 La Sorpresa La Palin 0,56 20 Lomitas La Quebradia 0,30 21 Catoto Jamandi 1,00 22 Catoto La Palin 0,56 23 Media La Preindia 0,30 23 Media Lombradia 0,30 24 Santa Librado La Vieja 0,30 25 Pichindia Palin 0,30 26 Pio. Tejada Moneies 6,80 27 Pic. Tejada Palin 0,30 28 Pio. Tejada Palin 0,30 28 Pio. Tejada Palin 0,30 28 Pic. Tejada Ovejers 6,80 28 Pic. Tejada Palin		Guavabal	Cauca	74,00	140,00	231,00	84,00	74,00	94,00	111,00	79,00	102,00	101,00
11 Ancaro Cauca 75,00 12 La Luisa Cauca 75,00 13 Orugai Descamatado 0,00 14 Buchtolo Eralia 0,00 15 El Vargel Guadalajara 0,00 16 Los Buchtolo Jamundu 1,50 17 Potrationes Guadalajara 0,00 18 La Sophesa La Quebradia 0,00 20 Lomitas La Quebradia 0,00 21 Cabtito La Quebradia 0,00 22 Catabito La Quebradia 0,00 23 Madito La Vegas 19,00 23 Madito La Vegas 19,00 23 Madita Moriles La Vegas 24 Sartal Lorance Moriles 0,50 25 Ptotinda Patinda 0,16 26 Pto. Tejada Patinda 0,20 27 Pto. Tejada Patinda 0,20 28 Pto. Tejada Patinda 0,20 29 Pto. Tejada Patinda 0,20 20 Pto. Tejada Patinda 0,20 28 Pto. Tejada		La Victoria	Cauca	74,00	140,00	240,00	84,00	74,00	96,00	111,00	83,00	119,00	105,00
12 La Lutsa Claro 0,70 13 Ortigati Descentrato 0,00 14 Buchtolo Fraile 0,30 15 El Vergel Guestigara 0,30 16 La Buchtolo Fraile 0,30 17 Poungais Guestigara 0,30 18 La Supresa La Supresa 1,50 19 La Supresa La Reingia 1,50 20 Lomitas La Quebrada 0,30 21 Catago La Quebrada 0,50 22 Lomitas La Quebrada 0,50 23 Madia Cance Media Cance 0,50 24 Satago Ovejes 6,80 25 Abejo Ovejes 6,80 26 Pto. Tejada Noreis 6,80 27 Ptorinda Pado 0,40 28 Pto. Tejada Pado 0,40 29 Ptormand 0,20 0,40 20 Ptormand Pado 0,40 28 Ptormand Quebrane 0,20 28 Ptormand Pado 0,40 28 Ptorecanti Quebrane 0,40 <td>$\left \right$</td> <td>Ancaro</td> <td>Cauca</td> <td>75.00</td> <td>140,00</td> <td>245,00</td> <td>89,00</td> <td>75,00</td> <td>101.00</td> <td>118,00</td> <td>88,00</td> <td>125,00</td> <td>111,00</td>	$\left \right $	Ancaro	Cauca	75.00	140,00	245,00	89,00	75,00	101.00	118,00	88,00	125,00	111,00
13 Ortigal Descentracto 0,02 14 Buchtolo Fraila 0,30 15 El Vergel Guendiajers 0,70 17 Los Buayres Guendiajers 0,70 18 Los Buayres Guendiajers 0,70 17 Potrentio Jamundi 1,50 18 La Sotresta La Runudi 1,00 20 Lomitas La Quebrada 0,30 21 Catagoo La Quebrada 0,30 22 Lomitas La Quebrada 0,30 23 Maddia Cancea Modia 15,00 23 Strata Librada Morales 0,15 24 Satta Librada Morales 0,15 25 Abajota La Veges 0,30 26 Pto. Tejacta 0,15 27 Ptchinda Ptchinda 0,30 28 Ptchinda Ptako 0,40 29 Ptchinda Ptako 0,40 21 Ptchinda Ptako 0,40 22 Ptchinda Ptako 0,40 23 Imatia Distrata 0,30 26 Pta Ferrocarri Quebran 0,40<		La Luisa	2 B	0,70	120	2.00	0,80	94.1	1,50	1,80	0,80	2,00	0,40
14 Buchticlo Fraile 0,30 15 El Vargel Guadalejerra 0,70 16 Los Bueyes Guadalejerra 0,70 17 Potranto Jamundi 1,50 18 La Sorpresa La Quebrada 0,54 20 Lomitas La Quebrada 0,50 21 Calcedonia La Veja 15,00 22 Cartago La Veja 15,00 23 Madia Cannos Modia Canos 0,50 24 Sartago La Veja 15,00 25 Arta Librada Modia Canos 0,15 26 Pto. Tejada Palo 0,30 27 Ptorinda Palo 0,30 28 Pto. Tejada Palo 0,30 29 Ptorinda Palo 0,30 21 Ptorinda Palo 0,30 23 Bradia Canos 0,15 0,40 26 Pto. Tejada Palo 0,30 27 Ptorinda Palo 0,20 28 Ptorinda Puthinda 0,20 29 Ptorinda Puthinda 1,10 20 Timba Palo 0,20	+	Ottom	Desbargtado	0.02	040	0,50	0,00	0,01	10'0	10'0	0,01	0,10	0,70
15 El Vergel Guadatajara 0,70 17 Potraerto Jamundi 1,50 18 Las Sorpresa La Faunundi 1,00 19 Cabito Jamundi 1,00 20 Lomitas La Quebrada 0,54 21 Cabito La Quebrada 0,50 22 Lomitas La Veja 0,50 23 Madia Canco La Veja 19,00 23 Sarta Librada Modia Cance 0,90 24 Sarta Librada Modia Cance 0,90 25 Pichinda Padia Cance 0,30 26 Pic. Tejada Ovejas 6,80 27 Picrinda Padio 0,30 28 Pic. Tejada 0,30 0,30 29 Pic. Tejada Ovejas 6,80 20 Pic. Tejada Padio 0,40 28 Pic. Tejada Padio 0,40 29 Pic. Tejada 2,0 0,40 20 Mananyo 0,20	+	Buchtolo	Fraile	0.00	2.30	2.80	1,30	0,10	0,10	0'20	0,20	0,10	0,70
16 Los Buayes Guengue 1,50 17 Potrento Jamundi 1,00 18 La Sorpresa La Pulhandi 1,00 19 Cabbro Lomitas La Quebrada 0,50 20 Lomitas La Quebrada 0,50 21 Catato La Veja 0,50 22 Catagoo La Veja 15,00 23 Media Canco Media Cance 0,30 24 Santa Libenda Monies 0,30 25 Pichinda Pechinda 0,30 26 Pic. Tajada Ovejes 6,80 27 Picrinda Palo 0,30 28 Pic. Tajada Palo 0,30 28 Pic. Tajada Ovejes 6,80 27 Picrinda Palo 0,30 28 Pic. Tajada Ovejes 6,80 29 Pic. Tajada Palo 0,40 28 Pic. Tajada Palo 0,20 28 Pic. Tajada Palo 0,20 29 Pic. Tajada Palo 0,20 20 Pic. Tajada Palo 0,20 28 Pic. Tajada Palo	+	El Varoal	Guadalaiara	0.70	2,30	2,30	1,20	1,30	0*10	1,60	1,00	1,50	0,10
17 Potrantto Jernuncti 1,00 18 La Sorpresa La Putranti 1,00 19 Cabito La Quebradia 0,54 20 Lomitas La Quebradia 0,50 21 Catoto La Weja 0,50 23 Media La Weja 19,00 23 Media Cance Media Cance 0,19,00 25 Abejo Ovejas 6,80 26 Pio. Tejada Monles 0,40 27 Pichinda Patinda 0,50 28 Pio. Tejada Monles 0,20 28 Pio. Tejada Patinda 0,30 29 Pic. Tejada Patinda 0,40 20 Pic. Tejada Patinda 0,20 28 Pio. Tejada Patinda 0,30 29 Pic. Tejada Pichinda 0,40 20 Pic. Tejada Pichinda 0,40 20 Pic. Tejada Pic. Tejada 1,100		on Bueves	Guenque	1.50	2.60	1.20	2,80	2,30	1,50	1,10	0,10	2,10	3,00
18 La Sopresa La Falla 0,54 19 Cabito La Quebrada 0,30 20 Lomitass La Quebrada 0,30 21 Cabito La Yeja 15,00 22 Cartagoo La Veja 15,00 23 Madia Cancea Media Cancea 0,15 24 Santal Cancea Media Cancea 0,15 25 Abajo Ovejess 6,80 26 Pto. Tejada Ptolinda 0,30 27 Ptortida Ptolinda 0,40 28 Pto. Tejada Ptolinda 0,40 28 Pto. Tejada Ptolinda 0,40 29 Pto. Tejada Ptolinda 0,40 20 Pto. Tejada Ptolinda 0,40 28 Pto. Tejada Ptolinda 0,40 20 Pto. Tejada Ptolinda 0,50 20 Pto. Tejada Ptolinda 0,50 20 Pto. Tejada Ptolinda 1,10	+	Potmentio	Jernundi	1.00	06.0	1,20	0,10	1,10	06'0	1,50	0,60	0'80	0,10
19 Cableto La Quebrada 0,30 20 Lomitas La Quebrada 0,30 21 Calcedonia La Teta 0,50 22 Catagoo La Veja 15,00 23 Maddia Cances Maddia Cances 0,15 24 Satta Librada Morales 0,15 25 Abedia Cances Morales 0,15 26 Pto. Tejada Pachinda 0,30 27 Ptortinda Ptolinda 0,40 28 Ptor Tejada Pachinda 0,30 27 Ptortinda Ptolinda 0,40 28 Ptortinda Ptolinda 0,40 29 Ptortinda Ptolinda 0,40 20 Ptortinda Ptolinda 0,40 28 Ptortinda Ptolinda 0,40 29 Ptortinda Ptolinda 3,10 20 Managradia Timba 3,10	T	a Somma	alla Palla	0.54	2.58	1.98	6.73	0,50	0.64	0,78	0,47	0,84	0,16
20 Lomites La Teta 0,50 21 Calcedonia La Vieja 15,00 22 Cartago La Vieja 19,00 23 Media Cannea Media Cannea 0,15 24 Santa Librada Media Cannea 0,30 25 Ruela Cannea 0,30 0,30 26 Pto. Tejada Pechinda 6,80 27 Ptchinda Pechinda 0,40 28 Ptchinda Pechinda 0,30 27 Ptchinda Pechinda 0,30 28 Ptc Teanccani Quinamayo 0,20 20 Ptchinda Ptchinda 0,30 21 Ptchinda Ptchinda 0,40 23 Ptchinda 7 0,40		Cahin	La Ouebreda	0:00	0,10	0,10	0.20	0,20	0,10	0*'0	0,10	00'30	0,30
21 Calcedonia La Vieja 15,00 22 Cartago La Vieja 15,00 23 Maddia Cance Modia Cance 0,15 24 Santa Librada Moniles 0,30 25 Abejo Ovejes 6,80 26 Pio. Tejeda Patio 0,30 27 Pichinde Pethinde 0,40 28 Pia. Tejeda Patio 0,30 20 Pichinde Pichinde 0,40 28 Pia. Tejeda Patio 0,30 20 Pichinde Pichinde 0,40 20 Pia. Trima 3,10 20 Mananeyo 0,20	+	omites	La Teta	0.50	0.90	1.70	0.00	05'0	0,60	1,00	09'00	08'0	0,60
22 Cartagoo La Vieja 19,00 23 Macdia Cancea Media Cancea 0,15 24 Santa Librada Moniles 0,30 25 Abejo Ovejas 6,80 26 Pio. Tejicda Patio 6,80 27 Pichinde Patio 0,40 28 Pia. Tejicda Patio 6,80 27 Pichinde Pichinde 0,40 28 Pia. Ferrocarii Quimamayo 0,20 29 Timba 3,10 1mba	+	Calcadonia	La Vieie	15.00	15.00	28.00	11.00	12,00	12,00	16,00	11,00	15,00	12,00
23 Media Cance Media Cance 0,15 24 Santa Librada Monales 0,30 25 Abajo Ovejas 6,80 26 Pto. Tejada Patio 6,80 27 Pichinde Patio 0,40 28 Pic Ferrocarii Quimarrayo 0,20 28 Pic Ferrocarii Quimarrayo 0,20 29 Pita Ferrocarii Quimarrayo 0,20 20 Matemativa Timba 3,10	+	Cartado	La Vieia	19,00	25,00	52,00	20,00	22,00	26,00	28,00	20,00	36,80	21,00
24 Santa Librada Moniea 0,30 25 Abajo Ovejas 6,80 26 Pto. Tejada Palo 6,80 27 Ptchinda Ptehinda 0,40 28 Pte. Ferrocarti Quinamayo 0,20 28 Pte. Ferrocarti Quinamayo 0,20 29 Timba 1,10a 40		Andia Cance	Media Cance	0.15	0.29	0,19	0,12	0,02	0,31	0,17	0,14	0,19	0,08
25 Abajo Ovejes 6,80 26 Pto. Tejacte Palo 6,80 27 Ptchinda Ptchinda 0,40 28 Pta. Ferrocarti Quinemayo 0,40 28 Pta. Ferrocarti Quinemayo 0,20 29 Timba 3,10 1 20 Mandaryo 1 210	+	anta librada	Monsies	0.00	2.00	1.60	0,10	0,10	0,10	0*0	0,20	09'00	0,64
26 Pto. Tejada Pado 6,90 27 Pto. Tejada Ptohinda 0,40 28 Pte Ferrocari Quinamayo 0,20 29 Timba 3,10 440 Ato	1	Abaio	Overas	6.80	6,80	8,30	3,30	5,00	5,40	7,30	5,60	6,80	5,90
27 Pichinde Pichinde Pichinde 0.40 28 Pie. Ferrocarii Quimerrayo 0.20 29 Timba Timba 3.10 20 Material 5.40 5.00		Pto. Teledie	Palo	6.80	6.00	18,00	5,70	4,30	5,90	8,60	5,60	8,10	9,60
28 Pte Ferrocarii Quinarnayo 0,20 29 Timba Timba 3,10 4444-444	$\frac{1}{1}$	Pichinde	Pichindie	040	0,50	1,00	0.20	02'0	0,60	0,60	0,60	0,80	0,70
29 Timba Timba 3,10	F	Re. Ferrocarii	Quinemeno	0,20	0.80	1,60	00'0	06'0	0,50	0,60	0,40	0,20	0,20
an Materiadas Tidas 450	$\left \right $	Timba	Timbe	3,10	5,20	9,80	3,60	3,60	4,60	5,70	3,50	8,70	3,80
I write I munit I temperature I minit	F	Meteguadua	Tulua	4,50	8,00	8,00	4,80	4,20	4,20	4,80	3,70	4,00	4,80

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redures it was applied the number of turning points test. As pointed out by NERC (1975), the assumption of randomness can not be proved but may be disproved if features of non-randomness are found in the series. In a random sequence the total number of turning points is approximately Normally distributed (Yule and Kendall.,1950), with mean $\frac{2(N-2)}{3}$ and variance $\frac{(16N-29)}{90}$. Furthermore, it was carry out the serial correlation coefficient to check the effect of persistence in the series and its aim was to investigate the degree to which the discharge in one year is dependent upon the magnitude of the discharge in the preceding year. The lag one serial correlation has been taken as a measure persistence. It is defined as:

$$R_1 = \frac{\frac{1}{N-1} \left[\sum_{i=1}^{N-1} (X_i - \overline{X}) (X_i - \overline{X}) \right]}{\frac{1}{N} \left[\sum_{i=1}^{N} (X_i - \overline{X}) \right]}$$

where R_1 is the serial correlation coefficient at lag one and X_i is the *i*th value in the series. For a random sequence the value R_1 should be close to zero and it varies from zero only by sampling variation. According to Clarke (1973), R_1 is normally distributed with mean $\frac{-1}{(N-1)}$ and variance $\frac{(N-2)^2}{(N-1)^3}$. The above two statistical distribution free tests, namely, turning points and serial correlation coefficient implie that they can be used whatever the form of the distribution in the parent population may be . Such tests have the advantage that their approximate validity is comparatively easy to verify, and they generally do not require a lot of computation. They are often less powerful than other standard procedures but the loss of power is usually small and it is more than compensated for their wider applicability (Keeping., 1966).

Regional analysis

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The hydrologist frequently needs to estimate event magnitude from sites which are either ungauged or have records of very short duration. When only a short record is available it is not advisable to choose a distribution at site base on the sample alone (NERC (1975), Cunnane (1989)), but prior information about the form of the distribution e.g. any existing regional frequency curve must be used. Usually attempts are made to use the information at hand which at first sight is that belonging to neighbouring gauge catchments. The use of information belonging to a particular region to establish quantiles estimates at a site is called regional analysis. By using this procedure the data belonging to a particular region is assumed as being derived from the same population, so that it is comdined with the prior information into a single standardized sample.

The regional methods are performed in order to reduce the standard error of the estimate (Benson (1960), Dalrymple (1960)), to reduce the sampling error and, even for a gauge site, will produce more reliable event estimates than a single station frequency analysis, Kite (1977).

Accurate flood frequency analysis demands some form of regionalization, but to regionalize climatic variables and transform them to get estimates of the extreme quantiles of streamflow is a approach designed, presumably not by intent, to maximize the root mean square error of the final quantile estimates (Wallis 1980). Hence, the use of more than one set of data produces more robustness in the estimation of the parameters. The most generalized scheme of regional analysis evolves the determination of a dimensionless flood or low flow frequency relationship, the estimation of a mean annual minimum or maximum flow series either from a record of data or from an equation linking it to catchment characteristics and the estimation of the quantile by using the relationship $\frac{Q}{Q} = Q_r$, where Q_r is the quantile variate, while Q is the estimate at site and \overline{Q} is the mean annual minimum or maximum flow (González (1989)).

Different regionalization methods are available (Dalrymple 1960, NERC 1975, U.S. Water Resources Council 1977, Wallis 1980), The regional PWM was chosen in this study. Wallis (1980), indicated that this procedure may be found useful in those situations, where the records are short as this case. Besides, if the data in the region are indeed 'homogeneous 'or 'quasy-homogeneous ', then the above procedure can be expected to result in quantile estimates that are better than the comparable at-site estimate for all sites.

The regional PWM technique is particularly robust when the available record samples are either of very short length, highly kurtotic or skewed (Greenwood et al.,(1979), Greis and Wood (1981). Robustness studies done through Montecarlo simulation have shown the better performance of this methodology over other regional frequency algorithms (Lettenmaier and Potter (1985), Hosking et al., (1985a,b) and, Wallis and Wood(1985)).

Figure 2 show the procedure to obtain the original PWM as suggested by Wallis (1980).



Figure 2. PWM regional Method as proposed by Wallis (1980)

pfd Parameter Estimation

To estimate the parameters of the pdf's used, the regional PWM was applied. The PWM method was introduced by Greenwood et al.,(1979). It is useful for distributions which can be expressed in inverse form (X=X(F)), where F is the cumulative distribution function. It leads to simple and unbiassed estimators (Cunnane., 1985). The PWM's are defined as:

$$M_{l,j,k} = E[X^{l}F^{j}(1-F)^{k}] = \int_{0}^{1} X^{l}F^{j}(1-F)^{k}dF$$

Where l, j, k are real numbers and $F = F(x) = P(X \le x)$. It is observed that the above expression is a more general expression than conventional moments. If j = k = 0, $M_{1,0,0}$ represents the moment about the origin of order 1.

As it is possible to express the Gumbel, Wakeby, GEV, and Weibull distributions in inverse form, they were fitted by using the PWM method.

Fitting the distributions by PWM.

In the application of the PWM method of parameter estimation to the different distributions applied, the moment used varies. While for the GEV distribution, Hosking et al., (1985b) obtained the parameters by using the moment $M_{1,j,0}$, Greenwood et al., (1979) used the expression $M_{1,0,k}$, to estimate the parameters of the Weibull, Gumbel, Generalized lambda, Logistic, Wakeby and Kappa distributions.

Landwehr et al., (1979 b, c), found that PWM algorithm performs well for the Wakeby distributions using moderately biased estimate of $M_{1,0,k}$ given as:

$$M_{1,0,k} = \frac{1}{N} \sum_{i=1}^{N} X_i (1 - P_i)^k$$

Where P_i denotes the *i*th plotting position calculated as: $P_i = \frac{(i-0.35)}{N}$, *i* is the rank and N the sample size.

The same biased estimator was utilized by Landwehr et al ., (1979a) to estimate the Gumbel parameters. Similarly, Hosking et al., (1979a, b) also applied the same estimator in the determination of the GEV parameters. In order to obtain the Weibull parameters the same estimator was implemented in this study.

Details of the derivation procedure and parameter estimates in the term of PWM can be found in Greenwood et al., (1979), Landwehr et al., (1979a,b,c), Hosking et al., (1985a,b). The parameters of the regional distributions were obtained by regionally averaging PWM's, as outlined in Fig.2. Table 5 shows the cumulative distribution functions for the different distributions applied in this study and the values of the parameters for the distributions fitted in the region for low flows and AM flow series.

Table 5. Parameter estimated for the pdf's used.

	Campietive Distribution		R		Distrib	-	smotes V		21. S.		
Distribution	Fuersies CDP		0		ц. — А	*		5			
	P(X) X(P)	Maa	Mia	Maz	Mie	Maz	Mis	Max	Mis	Max	Min
Gambel EVI	··· [- ··· { - (<u>* - *</u>) }]	0.88	0.763	0.27	P 41	•	•				
gestral raterate taler GEV		0.64	0 73	0.36	0.35	0.04	411				
Weibyll (3)persmetars	·{-(±)^}	ð	0	ta)	1.2.9	in,	3.07				
Walball (8)parameters	·{-(***)*}	0 347	0 396	0.734	8.635	3103	1.00				
Wakeby	$= + \left[\left[1 - (1 - P)^{\lambda} \right] - \left[\left[1 - (1 - P)^{-\theta} \right] \right]$	•	•	0.739	0,807	11.073	81.04	14.491	4.47	0.93	0.191

Goodness of fit test's

Most of the studies which have attempted to discriminate between distributions in frequency analysis methods have relied at least to some extent on objective goodness of fit indices, i.e. Benson (1968), Bobee and Robitaille (1975), NERC (1975), U.S.W.R.C. and Beable and McKerchar (1982). However, it is acknowledged that classical goodness of fit indices such as chi square and Kolmogorov-Smirmov test are not sufficiently sensitive or powerful, and they are of little help in choosing any distribution, Benson (1968), Bobee and Robitaille (1975), NERC (1975). Wallis and Wood (1985) pointed out that a goodness of fit test with short record can not provide unequivocal answers about the nature of the underlying distribution or necessary reliable guide to the problem of estimating extreme flow quantiles with a maximum accuracy, which emphasizes the need for robust estimation techniques.

Test's used

There were performed four goodness fit tests, namely, chi square, probability plot criteria (Benson 1968), 'DMAX ' and a graphical tests. In applying the chi square tests and the probability plot criteria the station year assumption in first made. The data of each sample is standardised by division by the sample mean. The values are pooled together into a single sample and it is assumed that this is a random sample from a single population.

Probability plot criteria (PPC)

The method consisted of evaluating how well each regional distribution under test fitted the whole of the standardized series. The following PPC index was chosen to estimate the deviations produced between the observed quantile (Q_i) and the variate value on the curve at the i^{th} plotting position.

$$PPC = \frac{1}{N} \sum_{i=1}^{N} |Q_i - E(Q_i)|$$

 $E(Q_i)$ depends on both the parameters and form of the distribution under test and implies that the plotting position or its equivalent on the probability scale is used (NERC 1975). This involves some compromises because the exact values of $E(Q_i)$

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for the GEV, Wakeby and Weibull distributions are unknown. However, distribution free Hazen formula $\frac{(i-0.5)}{N}$, is used here. The Gringorten formula $\frac{(i-0.44)}{(N+0.12)}$ was used for the EV1 distribution.

'DMAX ' goodness of fit test.

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This tests developed by Njenga and Cunnane (1985), has a philosophical basis similar to the Kolmogorov-Smirmov test, but in this cases the advantages of the computer are used to make inferences from the regional distribution of the statistics (skewness coefficient Cs, coefficient of variation Cv, coefficient of kurtosis Ck).

The statistics generated from a distribution under test are compared with those of the observed values of annual minimum and annual maximum flow series. The region was simulated 100 times by the computer. From the above simulation was obtained the same number of statistics (Cv,Cs and Ck) for each station. In each repetition the statistics belonging to the stations in the simulated region were ranked from smallest to largest. The mean in every rank and for each statistics was obtained. The absolute derivations of the statistics from the average for each rank and repetition were computed. The maximum value for each repetition denoted as 'DMAX' was selected. Thus, it is obtained a 100 rows vector of 'DMAX 'values for each statistics. Figure 3 shows the procedure.

Figure 3. algorithm to compute the 'DMAX' goodness of fit test

 $\begin{bmatrix} Distribution under test \end{bmatrix} \rightarrow \begin{bmatrix} Generate samples of size 10 \\ for the region of n stations \end{bmatrix} \rightarrow \begin{bmatrix} Calculate statistics Cs, Cv, Ck \\ for each stations in the region \end{bmatrix} \rightarrow \begin{bmatrix} rank the values for \\ each repetition \\ and statistics \\ for Cv \\ each repetition \\ and statistics \\ for Cv \\ \hline \\ cv_{100,1} \\ Cv_{100,2} \\ \hline \\ cv_{100,1} \\ Cv_{100,2} \\ \hline \\ cv_{100,n} \\ \hline \\ cv_{100,n} \\ \hline \\ cv_{100,n} \\ \hline \\ cv_{100,1} \\ \hline \\ c$

The maximum deviation between the ranked statistic from the observed series and their corresponding means obtain in the simulation $\overline{C_{v_1}}$ to $\overline{C_{v_n}}$ is the goodness of fit index called 'DMAX'. If 'DMAX 'is greater than the critical value taken from the upper tail of the fitted distribution obtained with the DMAX simulated values, then the hypothesis that the series comes from the distribution under test is rejected. The significance level selected for this study was 5%.

Graphical test.

For each the distributions under test in both sets of series (annual maximum and minimum), 500 samples of size 10 were generated and each simulation was ranked in ascending order. Thus each of the order statistis from one to ten have 500 values.

Instead of assuming any distribution for the random variables belonging to each order statistic, they were individually ranked in ascending order. From every order statistics the 12th and 488th values were chosen as the lower and upper bounds corresponding to the middle 95% confidence interval for this test. The pair of points so chosen were plotted against their corresponding plotting position order statistics on ordinary graph paper. Two separate smooth curves were drawn through the points corresponding to the upper and lower bounds respectively.

The test consists of plotting for each value of order statistics between 1 and 10 the standardized ranked values for each station in the region. The visual inspection as well as the number of points outside the bounds helps to obtain the best approximation for the region.

Results

From the persistence and randomness test's applied to the annual minimum flow series, the station number 30 on Tuluá river was withdraw from the analysis because it displayed persistence and non-randomness. None of the AM flow series showed neither persistence nor non-randomness. As a result the analysis was carry out with 29 stations for analysis of annual minimum flow and 30 stations for AM flow.

Before any goodness of fit test was carry out the Weibull three parameters distribution fitted to the annual minimum flow series was dropped from the analysis because its lower bound ($\mu = 0.395$) (see Table 5) was greater than 10% of the 290 standardized annual minimum flow values. In regard to the annual maximum flow series, it was observed that the value of the GEV distribution shape parameter (λ =0.061) is small and positive which corresponds to a EV3 distribution. Hosking et al., (1985a), developed a test to see whether the shape parameter λ is zero or not. The test was carry out and did not reject the hypothesis of $\lambda = 0$ at a significance level of 5%. As a consequence, the GEV distribution was dropped from the analysis, and the EV1 distribution was the only distribution from the GEV family remaining.

Annual series	Distribution	PPC Index
М		
i	EV1	0.21
n		
1	GEV	0.24
m		
u	Wakeby	0.24
m	Wathull	0.49
	weibuli	0.42
M	EWI	0.16
a	EVI	0.10
x i	Wakeby	1.01
m	Wakeby	1.01
ш	Weibull(2 parameters)	0.36
m		
	Weibull(3 parameters)	0.29

Table 6. PPC Index applied to the probability plot.

Annual minimum flows

The chi-square goodness of fit test shows the GEV distribution as the only distribution accepted at 5% level which describes the annual minimum flow series. In regard to the chi square index it is observed that the EV1 and Wakeby distribution have a similar index, while the Weibull distribution display a greater value. The hypothesis that the sample comes from the above distributions was rejected. This result somehow unexpected since the Wakeby distribution ought to be sufficiently flexible to fit any sample well. .

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Using the 'DMAX 'goodness of fit test. The regional GEV distribution perform better than the other fitted distributions. The Wakeby and EV1 distributions behave similarly in this test. The worst performance was obtained with the Weibull distribution. The hypothesis that the statistics Cv,Cs and Ck comes from the GEV distribution is accepted, while in the other distributions the hypothesis that the Cv comes from the distribution under test is rejected.

Fig.4 and Table 6 shows the data with the distribution under test displayed in EV1 paper plots. From a visual inspection of the plots and especially the lower tail of the distributions, it is observed that the fit in this part of the distribution, the most important for low flows, is not quite acceptable in any of them. The order of best fit according to the PPC criteria shown is : 1.)EV1, 2.)GEV, 3.)Wakeby and 4.)Weibull distribution.

The performance of the distributions (see Fig. 5 and Table 7) when is used the graphical test has the following order : 1.)EV1,2.)Wakeby, 3.)GEV and 4.)Weibull distribution.

From the above goodness of fit, it is observed that GEV distribution, followed by the EV1 distribution performed in the most stable way throughout all the tests.

Lettenmaier (1985), pointed out that two parameter distributions, as in this case the EV1 distribution, when they are used with an appropriate regionalization method, can result in quantile estimates with quite low variability but at expenses of considerable bias, and the GEV/PWM appear to yield quantile with low variability and low bias. That is why it is chosen the regional algorithm GEV/PWM for annual minimum flow in the region.



Fig. 4. Probability Plot test for the Annual Minimun Flow series

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Table 7. Number of values belonging to the series outside of the probability range.

Annual series	Distribution	Number of values
М		
i	EV1	23
n		
Î	GEV	29
m u	Wakeby	28
m		
	Weibull	31
М		
a	EV1	7
x	Wakeby	9
m		· · · · · · · · · · · · · · · · · · ·
u	Weibull(2 parameters)	13
m	Weibull(3 parameters)	9

Annual maximum flows

The result for the chi square test shows that EV1 distribution is the only one for which the hypothesis that the AM series comes from the distribution under test is accepted, the significance level used was 5%.

The performances of EV1 and Wakeby distribution in the DMAX test are similar. It is accepted the hypothesis that the statistics Cv,Cs and Ck came from this distributions. The Weibull three parameter distribution followed by the Weibull two parameter distribution obtained the worst performance.

The probability plot test showed that performances of the EV1 and Wakeby distributions are similar in the upper tail of the plot. However, the PPC criteria indicated a better performance of EV1 distribution, followed by the Weibull three parameter distribution and the Weibull two parameter (see Fig.6 and Table 6).

Fig.7 together with Table 7, showed again that the EV1 and Wakeby distribution perform in a similar way in the graphical test followed in the same order for the Weibull three and two parameter distributions.

From the results, it is observed that when it is applied to annual maximum flow series the EV1 distribution performed better that any other distributions. Therefore, the EV1 distributions is chosen for the annual maximum flow series.

NERC (1975) pointed out that it has not been shown conclusively that the two parameter distribution are inapplicable, moreover the performance of this algorithm EV1/PWM has shown that quatiles produce low variability despite doubts about the homogeneity of the region. Greis and Wood (1981).

Conclusions

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The main drawback in the choice of the distributions was that none of the test. except the probability plot, put emphasis in the lower or upper tail of the distribution which are the part of interest in low or high flow studies.

As was stated by Wallis (1980), theoretical innovations have not value for their own sake. They are only valuable if it can be proven that the new technique is in some sense superior to other techniques already available and accepted. This results may have value if it is compared with other techniques applied in Colombia and helps towards a procedure of regional estimates based upon the most update regional statistical techniques such as the cluster analysis.

Finally, the distributions chosen were the GEV distribution and EV1 distribution for annual minimum flow and annual maximum flow series respectively.



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